

Claims

[c1] WHAT IS CLAIMED IS:

1. A valve comprising:

a solenoid part;

a valve part connected to the solenoid part;

wherein the valve part has a housing provided with connecting bores for a pressure medium;

wherein the valve part comprises a piston and wherein the solenoid part acts on the piston to alternately connect the connecting bores to one another;

wherein the valve part has at least one groove extending alongside the valve part; and

wherein at least one of the connecting bores is positioned in the at least one groove.

[c2] 2. The valve according to claim 1, wherein the at least one groove extends in an axial direction of the valve.

[c3] 3. The valve according to claim 1, wherein the connecting bores each are located in a separate one of the at least one groove.

[c4] 4. The valve according to claim 3, wherein a diameter of the connecting bores matches a width of the separate

one of the at least one groove, respectively.

- [c5] 5. The valve according to claim 1, wherein a diameter of the connecting bores matches a width of the at least one groove.
- [c6] 6. The valve according to claim 1, wherein the valve is a cartridge valve.
- [c7] 7. The valve according to claim 1, wherein the at least one groove is provided in the housing of the valve part.
- [c8] 8. The valve according to claim 1, wherein the valve part comprises a sleeve and the at least one groove is provided in the sleeve.
- [c9] 9. The valve according to claim 8, wherein the valve part comprises a valve member having an annular groove, wherein the sleeve is pushed onto the valve member and surrounds the valve member, wherein at the bottom of the at least one groove a bore is provided that communicates with the annular groove of the valve member of the valve part.
- [c10] 10. The valve according to claim 1, wherein the valve is a proportional solenoid valve.